

SEQUENCE LISTING

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<110> Lead B.V.
      NOTEBORN, Mathieu Hubertus Maria
      DAMEN-VAN OORSCHOT, Astrid Adriana Anna Maria
<120> MOLECULES INTERACTING WITH APOPTIN
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<140> 09/551981
<141> 2000-06-26
<150> PCT/NL98/00687
<151> 1998-12-03
<150> EP 97203781.6
<151> 1997-12-12
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1

<210> 6

<211> 220

<212> PRT

<213> Homo sapiens

<400> 6

His Glu Gly Arg Gly Ile Met Glu Ala Asp Lys Asp Asp Thr Gln Gln 1 5 10 15

Ile Leu Lys Glu His Ser Pro Asp Glu Phe Ile Lys Asp Glu Gln Asn 20 25 30

Lys Gly Leu Ile Asp Glu Ile Thr Lys Lys Asn Ile Gln Leu Lys Lys 35 40 45

Glu Ile Gln Lys Leu Glu Thr Glu Leu Gln Glu Ala Thr Lys Glu Phe 50 55 60

Gln Ile Lys Glu Asp Ile Pro Glu Thr Lys Met Lys Phe Leu Ser Val 65 70 75 80

Glu Thr Pro Glu Asn Asp Ser Gln Leu Ser Asp Ile Ser Cys Ser Phe 85 90 95

Gln Val Ser Ser Lys Val Pro Thr Glu Ile Gln Lys Gly Gln Ala Leu 100 105 110

Ile Thr Phe Glu Lys Glu Glu Val Ala Gln Asn Val Val Ser Met Ser 115 120 125

Lys His His Val Gln Ile Lys Asp Val Asn Leu Glu Val Thr Ala Lys 130 135 140

Pro Val Pro Leu Asn Ser Gly Val Arg Phe Gln Val Thr Val Glu Val
145 150 155 160

Ser Lys Met Lys Ile Asn Val Thr Glu Ile Pro Asp Thr Leu Arg Glu 165 170 175

Asp Gln Met Arg Arg Lys Leu Glu Leu Ser Phe Ser Lys Ser Arg Asn 180 185 190 Gly Arg Arg Cys Gly Pro Arg Gly Thr Met Thr Asp Ser Pro Gly
195 200 205

Val Gln Ser Ser Arg Leu Val Glu Ile Gly Ser Gly 210 215 220

<210> 7

<211> 307

<212> PRT

<213> Homo sapiens

<400> 7

Met Glu Ala Asp Lys Asp Asp Thr Gln Gln Ile Leu Lys Glu His Ser 1 5 10 15

Pro Asp Glu Phe Ile Lys Asp Glu Gln Asn Lys Gly Leu Ile Asp Glu 20 25 30

Ile Thr Lys Lys Asn Ile Gln Leu Lys Lys Glu Ile Gln Lys Leu Glu 35 40 45

Thr Glu Leu Gln Glu Ala Thr Lys Glu Phe Gln Ile Lys Glu Asp Ile 50 55 60

Pro Glu Thr Lys Met Lys Phe Leu Ser Val Glu Thr Pro Glu Asn Asp 65 70 75 80

Ser Gln Leu Ser Asn Ile Ser Cys Ser Phe Gln Val Ser Ser Lys Val 85 90 95

Pro Tyr Glu Ile Gln Lys Gly Gln Ala Leu Ile Thr Phe Glu Lys Glu
100 105 110

Glu Val Ala Gln Asn Val Val Ser Met Ser Lys His His Val Gln Ile 115 120 125

Lys Asp Val Asn Leu Glu Val Thr Ala Lys Pro Val Pro Leu Asn Ser 130 135 140

Gly Val Arg Phe Gln Val Thr Val Glu Val Ser Lys Met Lys Ile Asn 145 150 155 160

Val Thr Glu Ile Pro Asp Thr Leu Lys Glu Asp Gln Met Arg Asp Lys
165 170 175

Leu Glu Leu Ser Phe Ser Lys Phe Arg Asn Gly Gly Glu Val Asp 180 185 190

Arg Val Asp Tyr Asp Arg Gln Ser Gly Ser Ala Val Ile Thr Phe Val 195 200 205

Glu Ile Gly Val Ala Asp Lys Ile Leu Lys Lys Lys Glu Tyr Pro Leu 210 215 220

Tyr Ile Asn Gln Thr Cys His Arg Val Thr Val Ser Pro Tyr Thr Glu 225 230 235 240

Ile His Leu Lys Lys Tyr Gln Ile Phe Ser Gly Thr Ser Lys Arg Thr

250 255 245 Val Leu Leu Thr Gly Met Glu Gly Ile Gln Met Asp Glu Glu Ile Val Glu Asp Leu Ile Asn Ile His Phe Gln Arg Ala Lys Asn Gly Gly Gly Glu Val Asp Val Val Lys Cys Ser Leu Gly Gln Pro His Ile Ala Tyr Phe Glu Glu 305 <210> 8 <211> 659 <212> DNA <213> Homo sapiens <220> <221> misc_feature <222> (1)...(659) for any n in the sequence, n is an undefined base <223> <400> 8 agcaggtgct gcaacaaaag gagcacacga tcaacatgga ggagtgccgg ctgcgggtgc 60 aggtccagcc cttggagctg cccatggtca ccaccatcca ggtgtccagc cagttgagtg 120 qccggagggt gttggtcact ggatttcctg ccagcctcag gctgagtgag gaggagctgc 180 tggacaanct anagatette tttggcaaga ctaggaacgg aggtggenat gtggacntte 240 ggganctact gccagggant gtcatgctgg ggtttgctag ggatggagtg gctcancgtc 300 tgtgccaaat cggccatttc acagtgccac tgggtgggca gcangtccct ctgagagtct 360 ctccqtatqt gaatggggan atccagangg ctganatcag gtcncagcca nttccccgct 420 eggtactggt geteaacatt cetgatatet tggatggeee ggagetgeat gaegteetgg 480 anatccactt ccagaanccc acccgcgggg gcggagatgt aagacgccct gacagtcgta 540 ccccaaqqac aacaqqqcct aacagtcttc acctcctgaa tcaaggctan gggcctcccc 600 cttctcatcc tccccaccc ccccgccaaa ggttctcaan actgggcctg ggctttntg 659 <210> 9 <211> 630 <212> DNA <213> Homo sapiens <220> <221> misc feature <222> (1)...(630)

<223> for any n in the sequence, n is an undefined base

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<210> 11

<211> 138

<212> PRT

<213> Homo sapiens

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His Glu Gly Pro Lys Val Ala Glu Gln Val Leu Gln Gln Lys Glu His

1 10 15

4

Thr Ile Asn Met Glu Glu Cys Arg Leu Arg Val Gln Val Gln Pro Leu 20 25 30

Glu Leu Pro Met Val Thr Thr Ile Gln Val Ser Ser Gln Leu Ser Gly
35 40 45

Arg Arg Val Leu Val Thr Gly Phe Pro Ala Ser Leu Arg Leu Ser Glu
50 60

Glu Glu Leu Leu Asp Lys Leu Glu Ile Phe Phe Gly Lys Thr Arg Asn 65 70 75 80

Gly Gly Asp Val Asp Val Arg Glu Leu Leu Pro Gly Ser Val Met
85 90 95

Leu Gly Phe Ala Arg Asp Gly Val Ala Gln Arg Leu Cys Gln Ile Gly
100 105 110

Gln Val His Ser Ala Thr Gly Trp Ala Ser Ser Pro Ser Glu Ser Leu 115 120 125

Ser Val Cys Glu Trp Gly Asp Pro Glu Gly 130 135

<210> 12

<211> 282

<212> PRT

<213> Homo sapiens

<400> 12

Met Ser Ala Pro Leu Asp Ala Ala Leu His Ala Leu Gln Glu Gln 1 5 10 15

Ala Arg Leu Lys Met Arg Leu Trp Asp Leu Gln Gln Leu Arg Lys Glu 20 25 30

Leu Gly Asp Ser Pro Lys Asp Lys Val Pro Phe Ser Val Pro Lys Ile 35 40 45

Pro Leu Val Phe Arg Gly His Thr Gln Gln Asp Pro Glu Val Pro Lys 50 55 60

Ser Leu Val Ser Asn Leu Arg Ile His Cys Pro Leu Leu Ala Gly Ser 65 70 75 80

Ala Leu Ile Thr Phe Asp Asp Pro Lys Val Ala Glu Gln Val Leu Gln 85 90 95

Gln Lys Glu His Thr Ile Asn Met Glu Glu Cys Arg Leu Arg Val Gln

100 105 110 Val Gln Pro Leu Glu Leu Pro Met Val Thr Thr Ile Gln Val Ser Ser Gln Leu Ser Gly Arg Arg Val Leu Val Thr Gly Phe Pro Ala Ser Leu Arg Leu Ser Glu Glu Glu Leu Leu Asp Lys Leu Glu Ile Phe Phe Gly Lys Thr Arg Asn Gly Gly Gly Asp Val Asp Val Arg Glu Leu Leu Pro 170 Gly Ser Val Met Leu Gly Phe Ala Arg Asp Gly Val Ala Gln Arg Leu Cys Gln Ile Gly Gln Phe Thr Val Pro Leu Gly Gly Gln Gln Val Pro Leu Arg Val Ser Pro Tyr Val Asn Gly Glu Ile Gln Lys Ala Glu Ile Arg Ser Gln Pro Val Pro Arg Ser Val Leu Val Leu Asn Ile Pro Asp Ile Leu Asp Gly Pro Glu Leu His Asp Val Leu Glu Ile His Phe Gln Lys Pro Thr Arg Gly Gly Gly Arg Gly Pro Asp Ser Arg Thr Pro 265 Arg Thr Ala Gly Pro Ser Ser Leu His Leu 275 280 <210> 13 <211> 207

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<213> Homo sapiens

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<223> for any Xaa in the sequence, Xaa is an undefined amino acid

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His Thr Ile Asn Met Glu Glu Cys Arg Leu Arg Val Gln Val Gln Pro

Leu Glu Leu Pro Met Val Thr Thr Ile Gln Val Met Val Ser Ser Xaa

Leu Ser Gly Arg Arg Val Leu Val Thr Gly Phe Pro Ala Ser Leu Arg 80

Leu Xaa Glu Glu Glu Leu Leu Asp Lys Leu Asp Leu Leu Trp Gln Xaa 85

Xaa Glu Arg Xaa Trp Arg Cys Gly Arg Ser Gly Ala Thr Ala Arg Glu 100 105 110

Cys His Ala Gly Val Cys Tyr Gly Trp Ser Gly Ser Ala Ser Val Pro 115 120 125

Asn Arg Pro Val His Lys Cys His Trp Val Gly Ser Lys Ser Leu Glu 130 135 140

Ser Leu Arg Met Xaa Xaa Arg Ser Glu Cys Xaa Val Ala Ser Asn Ser 145 150 155 160

Ser Leu Xaa Tyr Trp Cys Ser Xaa Ser Xaa Leu Gly Leu Ala Pro Xaa 165 170 175

Xaa Met Xaa Ser Gly Arg Phe Asn Xaa Xaa Ser Pro Xaa Xaa Xaa Xaa 180 185 190

Gly Lys Xaa Xaa Pro Xaa Xaa Ser Xaa Xaa Xaa Xaa Ser Xaa Ala 195 200 205

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<211> 647

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<213> Homo sapiens

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Arg Leu Arg Asn Gly His Val Gly Ile Ser Phe Val Pro Lys Glu Thr 1 5 10 15

Gly Glu His Leu Val His Val Lys Lys Asn Gly Gln His Val Ala Ser 20 25 30

Ser Pro Ile Pro Val Val Ile Ser Gln Ser Glu Ile Gly Asp Ala Ser 35 40 45

Arg Val Arg Val Ser Gly Gln Gly Leu His Glu Gly His Thr Phe Glu 50 55 60

Pro Ala Glu Phe Ile Ile Asp Thr Arg Asp Ala Gly Tyr Gly Gly Leu 65 70 75 80

Ser Leu Ser Ile Glu Gly Pro Ser Lys Val Asp Ile Asn Thr Glu Asp
85 90 95

Leu Glu Asp Gly Thr Cys Arg Val Thr Tyr Cys Pro Thr Glu Pro Gly
100 105 110

Asn Tyr Ile Ile Asn Ile Lys Phe Ala Asp Gln His Val Pro Gly Ser 115 120 125

Pro Phe Ser Val Lys Val Thr Gly Glu Gly Arg Val Lys Glu Ser Ile Thr Arg Arg Arg Ala Pro Ser Val Ala Asn Val Gly Ser His Cys Asp Leu Ser Leu Lys Ile Pro Glu Ile Ser Ile Gln Asp Met Thr Ala Gln Val Thr Ser Pro Ser Gly Lys Thr His Glu Ala Glu Ile Val Glu Gly Glu Asn His Thr Tyr Cys Ile Arg Phe Val Pro Ala Glu Met Gly Thr His Thr Val Ser Val Lys Tyr Lys Gly Gln His Val Pro Gly Ser Pro Phe Gln Phe Thr Val Gly Pro Leu Gly Glu Gly Gly Ala His Lys Val Arg Ala Gly Gly Pro Gly Leu Glu Arg Ala Glu Ala Gly Val Pro Ala Glu Phe Ser Ile Trp Thr Arg Glu Ala Gly Ala Gly Leu Ala Ile Ala Val Glu Gly Pro Ser Lys Ala Glu Ile Ser Phe Glu Asp Arg Lys Asp Gly Ser Cys Gly Val Ala Tyr Val Val Gln Glu Pro Gly Asp Tyr Glu Val Ser Val Lys Phe Asn Glu Glu His Ile Pro Asp Ser Pro 305 310 Phe Val Val Pro Val Ala Ser 'Pro Ser Gly Asp Ala Arg Arg Leu Thr 330 Val Ser Ser Leu Gln Glu Ser Gly Leu Lys Val Asn Gln Pro Ala Ser 340 Phe Ala Val Ser Leu Asn Gly Ala Lys Gly Ala Ile Asp Ala Lys Val 360 His Ser Pro Ser Gly Ala Leu Glu Glu Cys Tyr Val Thr Glu Ile Asp Gln Asp Lys Tyr Ala Val Arg Phe Ile Pro Arg Glu Asn Gly Val Tyr Leu Ile Asp Val Lys Phe Asn Gly Thr His Ile Pro Gly Ser Pro Phe Lys Ile Arg Val Gly Glu Pro Gly His Gly Gly Asp Pro Gly Leu Val Ser Ala Tyr Gly Ala Gly Leu Glu Gly Gly Val Thr Gly Asn Pro Ala

Glu Phe Val Val Asn Thr Ser Asn Ala Gly Ala Gly Ala Leu Ser Val Thr Ile Asp Gly Pro Ser Lys Val Lys Met Asp Cys Gln Glu Cys Pro 470 Glu Gly Tyr Arg Val Thr Tyr Thr Pro Met Ala Pro Gly Ser Tyr Leu 490 Ile Ser Ile Lys Tyr Gly Gly Pro Tyr His Ile Gly Gly Ser Pro Phe Lys Ala Lys Val Thr Gly Pro Arg Leu Val Ser Ásn His Ser Leu His 520 Glu Thr Ser Ser Val Phe Val Asp Ser Leu Thr Lys Ala Thr Cys Ala Pro Gln His Gly Ala Pro Gly Pro Gly Pro Ala Asp Ala Ser Lys Val Val Ala Lys Gly Leu Gly Leu Ser Lys Ala Tyr Val Gly Gln Lys Ser Ser Phe Thr Val Asp Cys Ser Lys Ala Gly Asn Asn Met Leu Leu Val Gly Val His Gly Pro Arg Thr Pro Cys Glu Glu Ile Leu Val Lys His 600 Val Gly Ser Arg Leu Tyr Ser Val Ser Tyr Leu Leu Lys Asp Lys Gly 615 Glu Tyr Thr Leu Val Val Lys Trp Gly His Glu His Ile Pro Gly Ser

Pro Tyr Arg Val Val Pro 645

<210> 15

<211> 213

<212> PRT

<213> Homo sapiens

<400> 15

His Glu Gly Arg Gly Val Thr Gly Asn Pro Ala Glu Phe Val Val Asn
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Thr Ser Asn Ala Gly Ala Gly Ala Leu Ser Val Thr Ile Asp Gly Pro 20 25 30

Ser Lys Val Lys Met Asp Cys Gln Glu Cys Pro Glu Gly Tyr Arg Val 35 40 45

Thr Tyr Thr Pro Met Ala Pro Gly Ser Tyr Leu Ile Ser Ile Lys Tyr 50 55 60

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Gly Gly Pro Tyr His Ile Gly Gly Ser Pro Phe Lys Ala Lys Val Thr
Gly Pro Arg Leu Val Ser Asn His Ser Leu His Glu Thr Ser Ser Val
Phe Val Asp Ser Leu Thr Lys Ala Thr Cys Ala Pro His His Gly Ala
Pro Gly Pro Gly Pro Ala Asp Ala Ser Lys Val Val Ala Lys Gly Leu
Gly Leu Ser Lys Ala Tyr Val Cys His Lys Ser Ser Phe Thr Val Asp
Cys Ser Lys Ala Cys Ile Ile Met Leu Leu Val Gly Val His Gly Pro
                                        155
Trp Thr Pro Cys Asp Glu Ile Leu Val Lys Ala Arg Gly Gln Pro Ala
                                    170
Leu Gln Arg Val Leu Thr Cys Phe Lys Asp Lys Gly Glu Val His Thr
Gly Gly Gln Asn Gly Gly Asp Tyr Gln Ile Pro Cys Lys Pro Leu Pro
                            200
Leu Cys Gly Cys Pro
    210
<210> 16
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Phe Ala Asp Gln His Val Pro Gly Ser Pro Phe Ser Val Lys Val Thr
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Gly Glu Gly Arg Val Lys Glu Ser Ile Thr Arg Arg Arg Arg Ala Pro
Ser Val Ala Asn Val Gly Ser His Cys Asp Leu Ser Leu Lys Ile Pro
Glu Ile Ser Ile Gln Asp Met Thr Ala Gln Val Thr Ser Pro Ser Gly
Lys Thr His Glu Ala Glu Ile Val Glu Gly Glu Asn His Thr Tyr Cys
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                                    90
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IleArgPheVal
100ProAlaGlu
100MetGly
105ThrHisThrValSerValLysTyrLysGlyGlyHisValProGlySerProPheGlnPheThrValGlyProLeu
130GlyGlyGlyAlaHisXaaValArgAlaGlyGlyProGlyLeu
145XaaLysSerSerTrpSerAlaSerArgThrLeu
170SerXaaAlaProAlaLeu
180YaaYaaGluProSerAspYaaAspThrAlaProYaaGluYalLeuLeuMetLeu
195YaaGluProSerAspYaaAspProYaaGluYalSer

Thr Lys Glu His Xaa 210

<210> 17 <211> 10 <212> PRT <213> Artificial Sequence

<221> misc_feature <223> Myc-tag peptide

<400> 17

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Glu Gln Lys Leu Ile Ser Glu Glu Asp Leu 1 5 10